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<input type="checkbox"/>	L6	tsi-a or tsi-b	1
<input type="checkbox"/>	L5	transcriptionally silent information	0
<input type="checkbox"/>	L4	L3 and impair\$	161
<input type="checkbox"/>	L3	L2 and select\$ [clm]	415
<input type="checkbox"/>	L2	L1 and plant	595
<input type="checkbox"/>	L1	transcriptional gene silenc\$	658

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FILE 'HOME' ENTERED AT 10:22:47 ON 14 SEP 2005

=> file agricola caplus biosis  
COST IN U.S. DOLLARS

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FILE 'AGRICOLA' ENTERED AT 10:23:05 ON 14 SEP 2005

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=> s transcriptional gene silenc?  
L1 1038 TRANSCRIPTIONAL GENE SILENC?

=> s l1 and plant?

L2 760 L1 AND PLANT?

=> s 12 and (defect? or impair? or mutat?)

L3 95769 12 AND (DEFECT? OR IMPAIR? OR MUTAT?)

=> del 13

DELETE L3? (Y)/N:y

=> s 12 and (defect? or impair? or muta?)

L3 168 L2 AND (DEFECT? OR IMPAIR? OR MUTA?)

=> s 13 and select?

L4 17 L3 AND SELECT?

=> dup rem 14

PROCESSING COMPLETED FOR L4

L5 10 DUP REM L4 (7 DUPLICATES REMOVED)

=> d 1-10 ti

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
TI UPS1 and UPS2 from Arabidopsis Mediate High Affinity Transport of Uracil and 5-Fluorouracil

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2  
TI Inhibition of HIV-1 fusion with small interfering RNAs targeting the chemokine coreceptor CXCR4

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3  
TI Tandem inverted repeat system for selection of effective transgenic RNAi strains in chlamydomonas

L5 ANSWER 4 OF 10 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 4  
TI Short defective interfering RNAs of tombusviruses are not targeted but trigger post-transcriptional gene silencing against their helper virus.

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN  
TI High-oleic and high-stearic cottonseed oils: nutritionally improved cooking oils developed using gene silencing

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5  
TI Virus variation in relation to resistance-breaking in plants

L5 ANSWER 7 OF 10 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI The abundant retinal protein of the Chlamydomonas eye is not the photoreceptor for phototaxis and photophobic responses.

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN  
TI A library of Arabidopsis 35S-cDNA lines for identifying novel mutants

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Selective inhibition of gene expression by RNAi in chick embryos in ovo

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6  
TI Cytosine methylation at CG and CNG sites is not a prerequisite for the initiation of transcriptional gene silencing in plants, but it is required for its maintenance

=> d ab

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
AB Salvage pathways play an important role in providing nucleobases to cells,

which are unable to synthesize sufficient amts. for their needs. Cellular uptake systems for pyrimidines have been described, but in higher eukaryotes, transporters for thymine and uracil have not been identified. Two plant transporters, AtUPS1 and PvUPS1, were recently identified as transporters for allantoin in Arabidopsis and French bean, resp. However, Arabidopsis, in contrast to tropical legumes, uses mainly amino acids for long distance transport. Allantoin transport has not been described in the Brassicaceae. Thus, the physiol. substrates of ureide permease (UPS) transporters in Arabidopsis may be compds. structurally related to allantoin. A detailed anal. of the substrate specificities of two members of the AtUPS family shows that AtUPS1 and AtUPS2 mediate high affinity uracil and 5-fluorouracil (a toxic uracil analog) transport when expressed in yeast and Xenopus oocytes. Consistent with a function during germination and early seedling development, AtUPS1 expression is transiently induced during the early stages of seedling development followed by up-regulation of AtUPS2 expression. Arabidopsis ups2 insertion mutants and ups1 lines, in which transcript levels were reduced by post-transcriptional gene silencing, are more tolerant to 5-fluorouracil as compared with wild type plants. The results suggest that in Arabidopsis UPS transporters are the main transporters for uracil and potentially other nucleobases, whereas during evolution legumes may have taken advantage of the low selectivity of UPS proteins for long distance transport of allantoin.

=> d so

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
 SO Journal of Biological Chemistry (2004), 279(43), 44817-44824  
 CODEN: JBCHA3; ISSN: 0021-9258

=> d 3 ab

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3  
 AB RNA interference (RNAi), the double-stranded RNA (dsRNA) triggered post-transcriptional gene silencing, is becoming a powerful tool for reverse genetics studies. Stable RNAi, induced by the expression of inverted repeat (IR) transgenes, has been achieved in protozoa, algae, fungi, plants, and metazoans. However, the level of gene silencing is often quite variable, depending on the type of construct, transgene copy number, site of integration, and target gene. This is a hindrance in functional genomics studies, where it is desirable to suppress target genes reliably to analyze unknown phenotypes. Consequently, we explored strategies for direct selection of effective transgenic RNAi lines in Chlamydomonas reinhardtii. We initially attempted to suppress expression of the Rubisco small subunit multigene family by placing an IR, homologous to the conserved coding sequence, in the 3'UTR of a transgene conferring resistance to bleomycin. However, this approach was fairly inefficient at inducing RNAi as many strains displayed defective transgene integration, resulting in partial or complete deletion of the IR, or low levels of dsRNA expression, presumably due to transcriptional silencing of the integrated IR transgenes. To overcome these problems we designed a system consisting of tandem IR transgenes that consistently triggered co-silencing of a gene with a selectable RNAi-induced phenotype (encoding tryptophan synthase  $\beta$  subunit) and another gene of interest (encoding either Ku80, an RNA-binding protein, or a thioredoxin isoform). We anticipate that this approach will be useful for generating stable hypomorphic epimutants in high-throughput phenotypic screens.

=> d 3 so

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3  
 SO Plant Journal (2004), 40(4), 611-621  
 CODEN: PLJUED; ISSN: 0960-7412

=> s l3 and epigenet?  
L6 26 L3 AND EPIGENET?

=> dup rem l6  
PROCESSING COMPLETED FOR L6  
L7 18 DUP REM L6 (8 DUPLICATES REMOVED)

=> d 1-10 ti

- L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI The putative RNA-dependent RNA polymerase RDR6 acts synergistically with ASYMMETRIC LEAVES1 and 2 to repress BREVIPEDICELLUS and microRNA 165/166 in Arabidopsis leaf development
- L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Atypical RNA polymerase subunits required for RNA-directed DNA methylation
- L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
TI BRU1, a novel link between responses to DNA damage and **epigenetic** gene silencing in Arabidopsis
- L7 ANSWER 4 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Maintenance of CpG methylation is essential for **epigenetic** inheritance during **plant** gametogenesis.
- L7 ANSWER 5 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN  
TI RNA-directed DNA methylation in Arabidopsis.
- L7 ANSWER 6 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 2  
TI Two regulatory levels of **transcriptional gene silencing** in Arabidopsis.
- L7 ANSWER 7 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN  
TI HDA6, a putative histone deacetylase needed to enhance DNA methylation induced by double-stranded RNA.
- L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI ROS1, a repressor of **transcriptional gene silencing** in Arabidopsis, encodes a DNA glycosylase/lyase
- L7 ANSWER 9 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Homology-dependent gene silencing mechanisms in fungi.
- L7 ANSWER 10 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI A truncated form of the human CAF-1 p150 subunit **impairs** the maintenance of **transcriptional gene silencing** in mammalian cells.

=> d 11-18 ti

- L7 ANSWER 11 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI PTGS in **plants**, a virus resistance mechanism.  
Original Title: L'inactivation **epigenetique** post-transcriptionnelle chez les vegetaux: Un mecanisme de resistance aux virus.

- L7 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
- TI Blocking histone deacetylation in Arabidopsis induces pleiotropic effects on plant gene regulation and development
  
- L7 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
- TI Endogenous targets of transcriptional gene silencing in arabidopsis
  
- L7 ANSWER 14 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI Transcriptional gene silencing mutants.
  
- L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
- TI Disruption of the plant gene MOM releases transcriptional silencing of methylated genes
  
- L7 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
- TI Gene silencing: RNA makes RNA makes no protein
  
- L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
- TI Cytosine methylation at CG and CNG sites is not a prerequisite for the initiation of transcriptional gene silencing in plants, but it is required for its maintenance
  
- L7 ANSWER 18 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI Manipulation of DET1 expression in tomato results in photomorphogenic phenotypes caused by post-transcriptional gene silencing.

=> d 18 ab

- L7 ANSWER 18 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- AB The tomato HIGH PIGMENT-2 gene encodes an orthologue of the Arabidopsis nuclear protein DE-ETIOLATED 1 (DET1). From genetic analyses it has been proposed that DET1 is a negative regulator of light signal transduction, and recent results indicate that it may control light-regulated gene expression at the level of chromatin remodelling. To gain further understanding about the function of DET1 during plant development, we generated a range of overexpression constructs and introduced them into tomato. Unexpectedly, we only observed phenotypes characteristic of DET1 inactivation, i.e. hyper-responsiveness to light. Molecular analysis indicated in all cases that these phenotypes were a result of suppression of endogenous DET1 expression, due to post-transcriptional gene silencing. DET1 silencing was often lethal when it occurred at relatively early stages of plant development, whereas light hyper-responsive phenotypes were obtained when silencing occurred later on. The appearance of phenotypes correlated with the generation of siRNAs but not DNA hypermethylation, and was most efficient when using constructs with mutations in the DET1 coding sequence or with constructs containing only the 3'-terminal portion of the gene. These results indicate an important function for DET1 throughout plant development and demonstrate that silencing of DET1 in fruits results in increased carotenoids, which may have biotechnological potential.

=> d 18 so

- L7 ANSWER 18 OF 18 AGRICOLA Compiled and distributed by the National

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(2005) on STN

SO Plant journal, p. 344-354

ISSN: 0960-7412

=> s transcriptionally silenced information

L8 0 TRANSCRIPTIONALLY SILENCED INFORMATION

=> s transcriptionally silent information

L9 4 TRANSCRIPTIONALLY SILENT INFORMATION

=> dup rem l9

PROCESSING COMPLETED FOR L9

L10 2 DUP REM L9 (2 DUPLICATES REMOVED)

=> d 1-2 ti

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

TI Cloning of transcriptionally silenced plant genes

L10 ANSWER 2 OF 2 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 1

TI Endogenous targets of transcriptional gene silencing in Arabidopsis.

=> s ((steimer a?) or (steimer, a?))/au

L11 10 ((STEIMER A?) OR (STEIMER, A?))/AU

=> dup rem l11

PROCESSING COMPLETED FOR L11

L12 5 DUP REM L11 (5 DUPLICATES REMOVED)

=> d 1-5 ti

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Cell Culture Models of the Respiratory Tract Relevant to Pulmonary Drug Delivery

L12 ANSWER 2 OF 5 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 1

TI Epigenetic control of plant development: new layers of complexity.

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Cloning of transcriptionally silenced plant genes

L12 ANSWER 4 OF 5 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 2

TI Apomixis in agriculture: the quest for clonal seeds.

L12 ANSWER 5 OF 5 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 3

TI Endogenous targets of transcriptional gene silencing in Arabidopsis.

=> s ((sheid o?) or (sheid, o?))/au

L13 0 ((SHEID O?) OR (SHEID, O?))/AU

=> s ((sheid o?) or (sheid, o?))/au

L14 0 ((SHEID O?) OR (SHEID, O?))/AU

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=> s ((sheid, o?) or (sheid o?))/au
L15      0 ((SHEID, O?) OR (SHEID O?))/AU

=> s ((paszkowski j?) or (paszkowski, j?))/au
L16      259 ((PASZKOWSKI J?) OR (PASZKOWSKI, J?))/AU

=> s l16 and silenc?
L17      53 L16 AND SILENC?

=> s l18 and plant?
L18 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l17 and plant?
L18      51 L17 AND PLANT?

=> s l18 and transcript?
L19      33 L18 AND TRANSCRIPT?

=> dup rem l19
PROCESSING COMPLETED FOR L19
L20      18 DUP REM L19 (15 DUPLICATES REMOVED)

=> d 1-10 ti

L20 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
TI BRU1, a novel link between responses to DNA damage and epigenetic gene
silencing in Arabidopsis

L20 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN
TI DNA and histone methylation in plants

L20 ANSWER 3 OF 18 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2005) on STN DUPLICATE 2
TI Two means of transcriptional reactivation within
heterochromatin.

L20 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN
TI Formation of stable epialleles and their paramutation-like interaction in
tetraploid Arabidopsis thaliana

L20 ANSWER 5 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Maintenance of CpG methylation is essential for epigenetic inheritance
during plant gametogenesis.

L20 ANSWER 6 OF 18 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2005) on STN DUPLICATE 3
TI Two regulatory levels of transcriptional gene silencing
in Arabidopsis.

L20 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
TI Depletion of MOM1 in non-dividing cells of Arabidopsis plants
releases transcriptional gene silencing

L20 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN
TI Cloning of transcriptionally silenced plant
genes

L20 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN
TI Gene involved in epigenetic gene silencing

L20 ANSWER 10 OF 18 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN

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'TI' Epigenetic developmental mechanisms in plants: Molecules and targets of plant epigenetic regulation.

=> d 11-18 ti

- L20 ANSWER 11 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 5
- TI Gene silencing and DNA methylation processes.
- L20 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
- TI Endogenous targets of transcriptional gene silencing in arabidopsis
- L20 ANSWER 13 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 7
- TI Transcriptional gene silencing mutants.
- L20 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8
- TI Disruption of the plant gene MOM releases transcriptional silencing of methylated genes
- L20 ANSWER 15 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN
- TI Disruption of the plant gene MOM releases transcriptional silencing of methylated genes.
- L20 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Release of epigenetic gene silencing by trans-acting mutations in Arabidopsis
- L20 ANSWER 17 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 9
- TI Cytosine methylation at CG and CNG sites is not a prerequisite for the initiation of transcriptional gene silencing in plants but it is required for its maintenance.
- L20 ANSWER 18 OF 18 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 10
- TI Methylation of cytosines in nonconventional methylation acceptor sites can contribute to reduced gene expression.